# MINOLTA XL-601/401

PRECISION,
EXISTING-LIGHT SUPER-8
MOVIE CAMERAS

# NEW GENERATION MOVIE CAMERAS FOR THE PERSON SERIOUS ABOUT SUPER-8

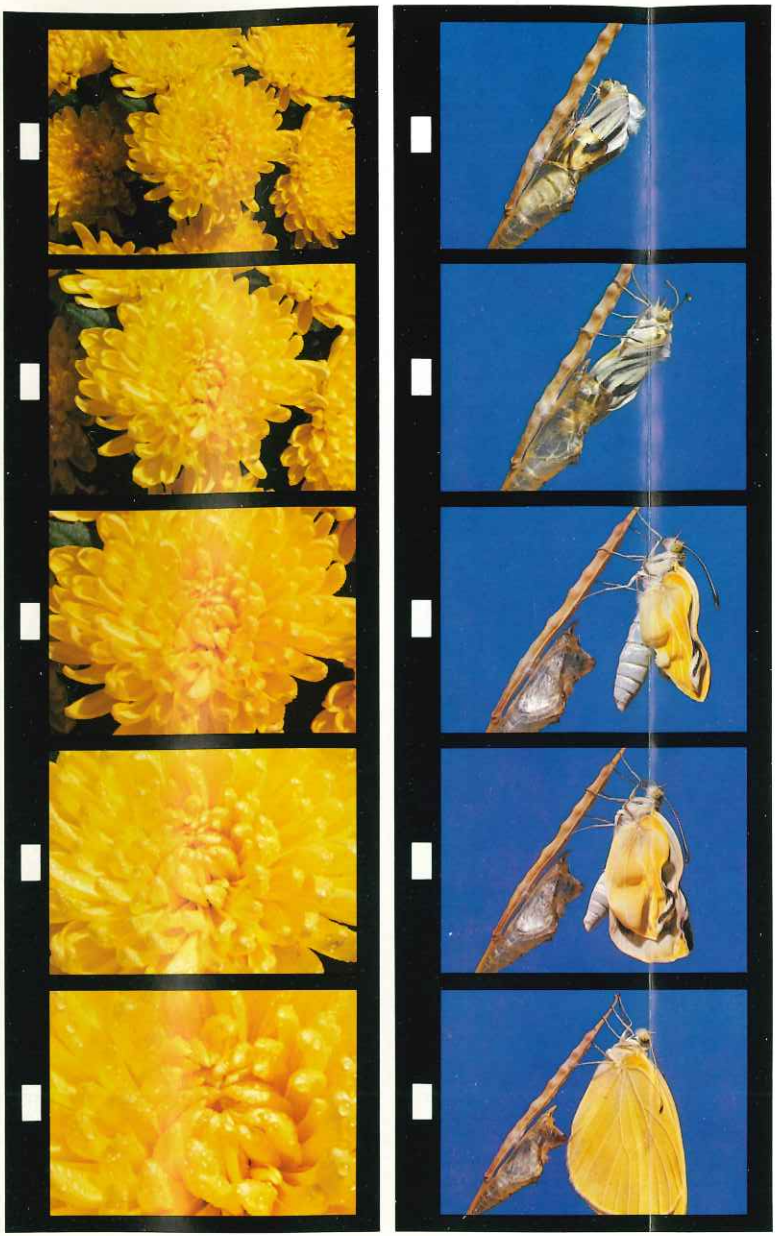
The technological precision found only in the very finest and most versatile of Super-8 camera systems is at the heart of these two new Minolta movie cameras. As exact as they are advanced, as convenient and pleasurable to use as they are beautifully crafted, the XL-601 and XL-401 deliver all the excitement you've come to expect from Super-8, plus the uncanny ability to film without special lighting equipment in dim light. These are the "new generation" Minolta Super-8s, designed especially for the serious filmmaker, packed with a broad range of features for special effect filming.

Both cameras handle different and difficult filming situations in extraordinary creative ways. The appeal for the professional filmmaker, and the great advantage for all cinematographers, will be the cameras' many specialized features for advanced filming techniques. Automatic and manual exposure determination is possible with both cameras. Through-the-aperture exposure measuring, bright, clear reflex viewing and focusing, and an advanced, precise electromagnetic shutter release are standard equipment. There is macro-filming capability for the kind of close-ups that add superb creative effects to all films. And a built-in intervalometer for greatly speeded-up action effects, and for advanced professional and scientific research filming.

Other features are equally useful: A built-in self-timer, so you can put yourself in your films. Backlight correction. An information-center viewfinder. Automatic power zooming. And the compact, lightweight, beautifully designed handling ease that is a hallmark of all Minolta cameras.

These are the idea cameras, with more specialized features for professional-looking Super-8 films than any other reasonably-priced movie cameras. If you're serious about the kind of Super-8 films *you* make, you'll sense this professionalism immediately. And you'll choose Minolta.

# BUILT-IN MACRO AND INTERVALOMETER FILMING CAPABILITY



**Macro**

Subjects as close as the surface of the lens itself can be photographed with these Minolta Super-8 cameras. Both feature easy-to-use, built-in close-up filming capability that is accomplished without special lenses or additional attachments. The unusual cinematic possibilities with macro capability are limitless. Everyday objects come to life with stunning realism, adding excitement to your films. Everywhere are ideal subjects for macro filming: insect and plant life, coins, stamps, art reproductions, maps, and many other commonplace scenes.

**Intervalometer**

Unusual special effects for family fun filming or precision timed filming for research and scientific purposes are possible with the built-in intervalometer which is a standard feature of the Minolta XL-movie cameras. This miniaturized variable timer releases the camera shutter at intervals which you set, choosing from 0.5 to 60 seconds or single-frame exposures.

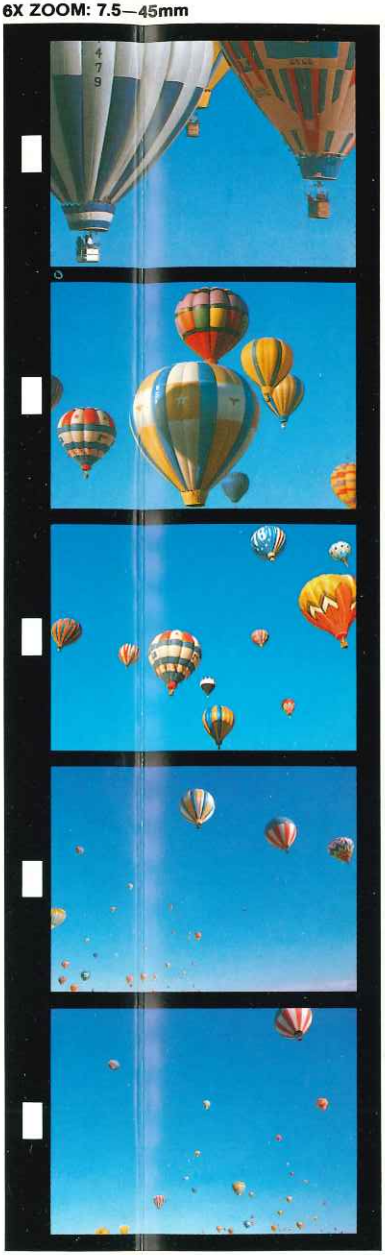
Uses of the intervalometer are many and varied. Fast action effects add hilarious comic touches to family films. The intervalometer is a superb device for studies of nature, and an excellent tool for professional and scientific research, including filming of animals in their natural habitats, plants, work and motion analyses, and operational progress.

# BIG ZOOM ROKKOR-MACRO LENSES WITH POWER ZOOM CONTROL

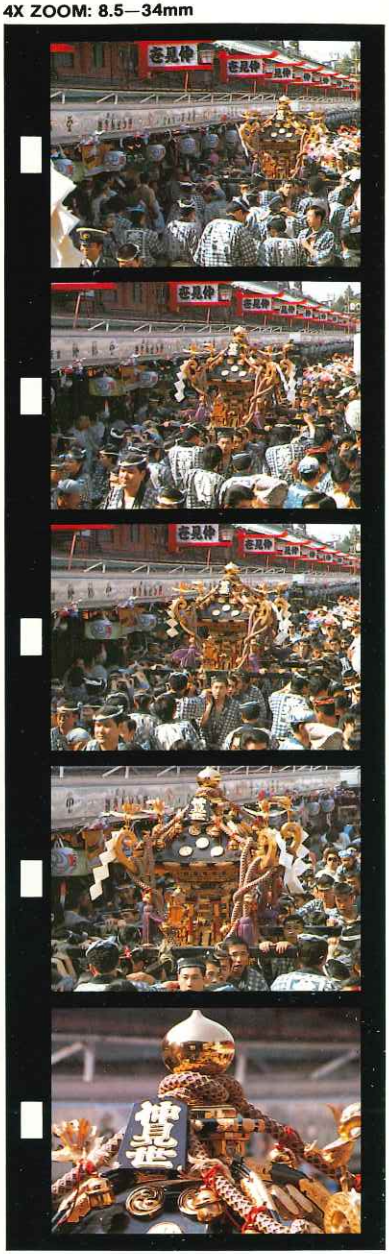
You know these cameras are made for serious filmmakers when you see their beautiful zoom Rokkor-macro lenses. On the XL-601, the 6X zoom is from 7.5 to 45mm (13 computer-designed elements in 11 groups), certainly one of the largest available on any existing-light Super-8 camera today. On the XL-401, the zoom is a big 4X ratio—a focal length from 8.5 to 34mm, with 13 elements in 12 groups. And like all Minolta Rokkor lenses, these zooms deliver perfect color rendition and their performance is guaranteed.

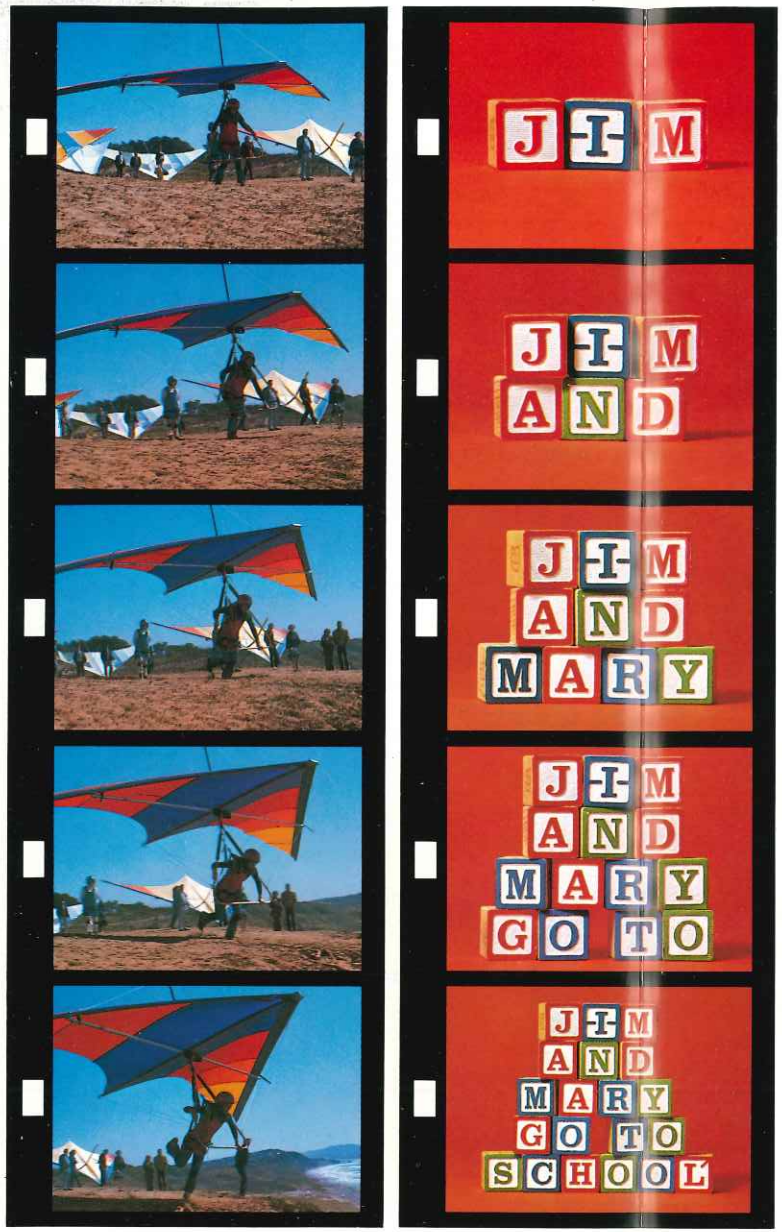
**Power Zoom Control**
Zooming from wideangle to telephoto requires only a simple touch of the finger. As you push the zoom control the lens zooms toward the telephoto or wideangle range. Either zoom technique is accomplished accurately and smoothly. Manual zooming is also possible with either camera. A manual zoom ring on the lens barrel lets you zoom very fast or very slow, or to set the lens at any desirable focal length prior to zooming.

**6X ZOOM: 7.5—45mm**



**4X ZOOM: 8.5—34mm**



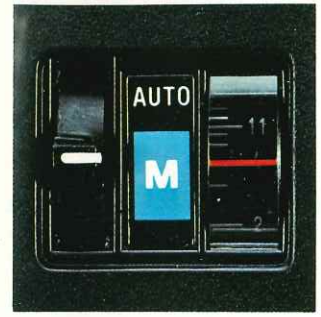



**Backlight Correction**
+1.5EV additional exposure to compensate for backlit shadow areas may be obtained with the XL-movie cameras by turning the operating switch index to align with the backlight indication. This over-exposure correction is recommended for filming subjects against a very light background and for achieving special lighting effects.

**Single-Frame Photography**
This built-in feature enables you to expose one frame at a time to animate titles or cartoons, and for trick and special effects, as well as time-lapse photography. The function selector on the intervalometer is set to S.F., to activate single frame exposure. Focus and exposure are then properly determined and the shutter is released.

**Self-Timer**
Now with Minolta XL-movie cameras, you can get in your own movies. Ten seconds after you set the special built-in self-timer device, the camera starts filming. Depending on where you set the special intervalometer dial, it will film for 10 to 20 seconds, then switch itself off automatically. This makes Super-8 filming more fun than ever—and makes it even more a family affair.

**Manual Aperture Control**
The XL-movie cameras give the serious filmmaker a choice of automatic or manual exposure control. If you choose to "override" the exposure meter when filming in unusual or difficult lighting situations, the cameras provide a creative choice. Manual aperture mode lets you choose any aperture setting on the aperture scale, but it is always used for electronic flash exposure and is also recommended for special single-frame applications. You will also want to turn to manual aperture control to keep exposure uniform at a given level in situations when background brightness is constantly changing due to zooming or panning.



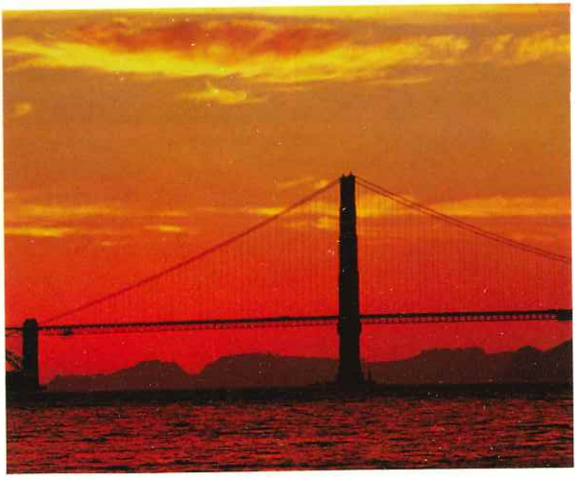
## EXISTING LIGHT FILMING WITH AUTOMATIC THROUGH-THE-APERTURE SERVO MOTOR SYSTEM

With the XL-movie cameras, you can film virtually anywhere, under almost any lighting conditions. You can film in normal room light, at an outdoor night sporting event, at a child's birthday party—where only a dozen candles, or even less, are lighting smiling faces. Thanks to the ingenuity of existing-light filming technology, memorable moments that should be recorded are always recorded with the Minolta XL-movie cameras.

The technology of existing-light photography is simple. At the normal filming speed of 18 frames per second these cameras accept *16 times more light than conventional Super-8 cameras.* They also have fast lenses: a f/1.2 on the XL-401; a f/1.7 on the XL-601. These lenses combine with the Minolta XL shutter opening sector that is 60° wider than conventional cameras—meaning more light gets to the film and for a longer period of time. Finally, these cameras use the fastest Super-8 film with an ASA rating of 160.

The XL-601 and XL-401 continuously and automatically adjust themselves for accurate exposure under *all* lighting conditions. The through-the-aperture servo exposure measuring system incorporated in both cameras is especially ideal for existing low light photography, and its accuracy is never altered by the quantity of available light.

The TTA servo exposure measuring system is preferred today by serious Super-8 filmmakers. It automatically controls the opening and closing of the lens aperture, while simultaneously making automatic compensations for zooming and filter variations.



# TOTAL INFORMATION VIEWFINDER

The total-information viewfinder gives you complete creative control over your subject matter as you film. With your eye to the finder, you can frame, focus, zoom in or out, and shoot with uncommon ease. Focusing is easy, too, because the viewfinder is the popular single-lens-reflex type, complete with split-image focusing spot.

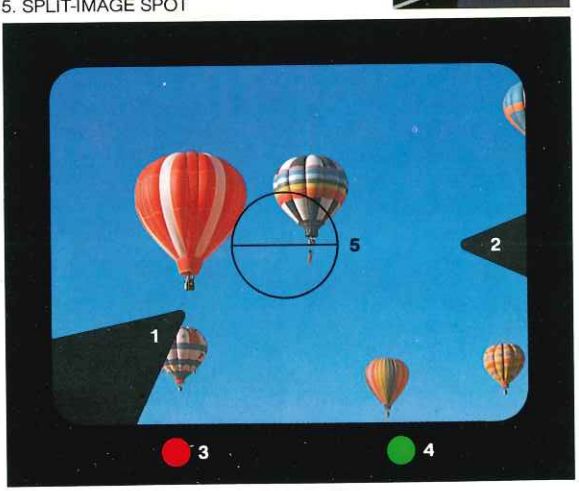
Looking through the viewfinder reveals the entire picture. The *split-image spot,* in the center of the finder, assures pinpoint focusing. *The underexposure warning signal* lets you know when light is too dim for proper exposure. Another pointer, the *manual exposure control,* tells you when exposure is not being set automatically.

A green LED (light-emitting-diode) at the lower right of the viewfinder frame is the *safe-run/battery-check indicator.* It flickers on and off when you are filming and beeps on to indicate batteries are functioning properly. Another LED indicator, at the left side of the frame, is the *film end indicator.* It lights 10 seconds before the film in the cartridge ends.

**Eyepiece Adjustment**

Each camera has an eyepiece that may be adjusted for special vision problems. The built-in eyepiece diopter (+1 to −4) adjusts for different eyesights.

1. UNDEREXPOSURE WARNING SIGNAL
2. MANUAL SETTING SIGNAL
3. FILM END INDICATOR
4. SAFE-RUN/BATTERY-CHECK INDICATOR
5. SPLIT-IMAGE SPOT



# OTHER FEATURES

**Economical Power Source**
Only two inexpensive 1.5 volt AA-size (penlight) batteries are required to power the XL-movie cameras film transport, exposure system and zooming motor.

**Runlight**
A red lamp located above the lens lights when a film is being made. It's the precise way to alert your subjects when scenes begin and end.

**Film Supply Indicator**
A glance at this window indicates the amount of film that has been exposed in the cartridge. It helps you plan special scenes.

**Built-in Lens Hood**
Collapsible when the camera is not used, the lens hood prevents lens flare when you film in strong, direct light.

**Eyepiece Shutter**
This control opens or closes the viewfinder shutter to prevent light from entering through the eyepiece and affecting the meter.

**X-Sync. Terminal**
This terminal accepts a flash sync. cord for electronic-flash filming, and to let you properly light individual single-frame exposures and time-lapse photography.

**Type-A Filter Switch**
This built-in filter is automatically removed when a cartridge of Type G film is inserted. It is manually removed when the camera is used indoors in tungsten light conditions.

**Folded Handgrip**
Extreme compactness of the XL-movie cameras is enhanced by this feature, which permits coat pocket carrying. A hand strap adds more handling convenience.

# XL-MOVIE CAMERA ACCESSORIES

**Remote Control Cord**
A three-meter (10-foot) cord that provides positive, unfailing remote control operation. You plug it into the socket provided on the camera. It is especially recommended to avoid camera movement in single-frame and tripod filming.

**UV and ND Filters**
Ultraviolet filter absorbs excessive ultraviolet rays in black-and white or color filming, may also be used as a lens protector. ND filter decreases light by two stops, prevents overexposure when filming in bright conditions.

**SOUND 6000**
Minolta's sound movie projector is part recording studio as well. It lets you add sound to silent film with magnetic stripe, add music, voice or sound effects to sound films, and erase or replace existing sound tracks on either. Other features include automatic threading, one dial projection control, easy reverse and rewinding, mixing master, automatic level limiter, sound fade-in or fade-out. Can be used for both Super-8 or Single-8 silent or magnetic sound film. With the 15-25mm f/1.3 P. Zoom Rokkor lens, the films you project will be just as sharp as the way they were filmed. Many optional accessories available for enhanced versatility.

# MINOLTA XL-601/401 SPECIFICATIONS

**Camera type:** Movie cameras with low-light filming capability using Super-8 silent cartridges

**Lens:** XL-601: 7.5—45mm (6X) f/1.7 Zoom Rokkor-Macro, 13 elements in 11 groups; XL-401: 8.5—34mm (4X) f/1.2 Zoom Rokkor-Macro, 13 elements in 12 groups. Both lenses include internal swing-in elements that enable photomacrography

**Auto-exposure system:** Through-the-aperture servo-motor type incorporating CdS cell, mirror-shutter, and bridge circuit; back-light adjustment provides +1.5 EV more than normal setting

**Usable films:** Super-8 cartridges of Type G color film having a film-speed rating of ASA 160; or of black-and-white or Outdoor-Indoor Type A color film with daylight ratings of ASA 25 or 100 and tungsten ratings of ASA 40 or 160; film-speed setting automatically made when cartridge is loaded

**Shutter:** Rotary type with 220° sector opening and speed of 1/29.5sec. at a fixed 18fps and single frame; X sync. at single frame

**Drive system:** One electric micromotor for film transport, shutter operation, and power zooming while filming

**Power source:** Two AA-size (penlight) 1.5v dry cells, alkaline-manganese (Eveready E91 or equivalent) or sealed carbon-zinc (Eveready 815 or equivalent) recommended

**Focusing:** XL-601: 1m (3.5ft.) to infinity by distance scale or split-image focusing spot in finder; macro-range; film-to-subject distances of 10 (lens-surface-position) to 116cm (16⅞ to 3¹⁵⁄₁₆in.) by manual zoom ring and split-image spot. XL-401: 1.2m (4ft.) to infinity by distance scale or split-image focusing spot in finder; macro-range; film-to-subject distances of 9.4 (lens-surface-position) to 43cm (3¹¹⁄₁₆ to 16¹⁵⁄₁₆in.) by manual zoom ring and split-image spot

**Viewfinder:** Single-lens-reflex type, with split-image focusing aid, underexposure warning, manual-setting signals, LED safe-run/battery indicator, and film end indicator visible while viewing; +1 to −4 diopter eyepiece adjustment

**Film-supply indicator:** Moving-tape type, automatic return when cartridge removed

**Other features:** Electromagnetic shutter release actuated by filming button, built-in intervalometer, or remote input to socket provided; built-in No. 85 filter (for using Type A film in daylight) positioned by manual switch; removed automatically when Type G cartridge loaded; manual aperture control; folded hand grip; self-timer

**Dimensions/Weight:** 42×121×187mm (1⅝×4¾×7⅜in.)/ 710g (25oz.)

Specifications subject to change without notice.

MINOLTA MASTERS PHOTOGRAPHY

**Minolta**

**MINOLTA CAMERA CO., LTD.**

**XSM-809E-A7**

Printed in Japan